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Salts or chelate complexes of the compounds of the invention containing a heavy metal atom or ion are particularly useful in diagnostic imaging or therapy. Especially preferred are salts or complexes with metals of atomic numbers 20-32, 42-44, 49 and 57 to 83, especially Gd, Dy and Yb. For use as an MR-diagnostics contrast agent, the chelated metal species is particularly suitably a paramagnetic species, the metal conveniently being a transition metal or a lanthanide, preferably having an atomic number of 21-29, 42, 44 or 57-71. Metal chelates in which the metal species is Eu, Gd, Dy, Ho, Cr, Mn or Fe are especially preferred and Gd.sup.3+, Mn.sup.2+ and Dy.sup.3+ are particularly preferred. Chelates of ions of these metals specifically listed above with chelants of formula VII or their salts with physiologically tolerable counterions are particularly useful for the diagnostic imaging procedures mentioned herein and they and their use are deemed to fall within

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	U	1	Document ID	Issue Date	Page	Title	Current O	Current	Retrieval	Index
1	<input type="checkbox"/>	<input type="checkbox"/>	US 5958373 A	19990928	13	Polychelants as contrast enhancing	424/1.65	424/9.363;		Garrity, I
2	<input type="checkbox"/>	<input type="checkbox"/>	US 4880008 A	19891114	14	Vivo enhancement of NMR relaxivity	424/9.363	424/9.34;		Lauffer, J

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Brief Summary Text - BSTX (51):

The skeletons of the macrocyclic chelant groups or, more preferably, of the linker moiety, may be derivatised to enhance properties of the overall chelant, for example to include hydrophilic or lipophilic groups or biologically targetting groups or structures. Examples of macromolecules, biomolecules and macrostructures to which the polymeric chelant may be conjugated in this way include polymers (such as polylysine or polyethyleneglycol), dendrimers (such as first to sixth generation starburst dendrimers and in particular PAMAM dendrimers), polysaccharides, proteins, antibodies or fragments thereof (especially monoclonal antibodies or fragments such as Fab fragments), glycoproteins, proteoglycans, liposomes, aerogels, peptides, hormones, phospholipids, steroids, microorganisms, human or non-human cells or cell fragments, cell adhesion molecules (in particular nerve adhesion molecules such as are described in WO-A-92/04916), other biomolecules, etc). Generally such

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1	<input type="checkbox"/>	<input type="checkbox"/>	US 5958373 A	19990928	13	Polychelants as contrast enhancing	424/1.65	424/9.363;		Garrity,
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4880008 A	19891114	14	Vivo enhancement of NMR relaxivity	424/9.363	424/9.34;		Lauffer,

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The diagnostic and therapeutic agents of the present invention may be formulated with conventional pharmaceutical or veterinary formulation aids, for example stabilizers, antioxidants, osmolality adjusting agents, buffers, pH adjusting agents, etc. and may be in a form suitable for parenteral or enteral administration, for example injection or infusion or administration directly into a body cavity having an external escape duct, for example the gastrointestinal tract, the bladder or the uterus. Thus the agent of the present invention may be in a conventional pharmaceutical administration form such as a tablet, capsule, powder, solution, suspension, dispersion, syrup, suppository, etc; however, solutions, suspensions and dispersions in physiologically acceptable carrier media, for example water for injections, will generally be preferred.

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	U	1	Document ID	Issue Date	Page	Title	Current O	Current	Retrieval	In
1	<input type="checkbox"/>	<input type="checkbox"/>	US 5958373 A	19990928	13	Polychelants as contrast enhancing	424/1.65	424/9.363;		Garritty, I

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Brief Summary Text - BSTX (47):

The metals represented by M include both paramagnetic and diamagnetic metals, the former being particularly useful for complexes used as MRI contrast agents, and the latter being particularly useful in photodynamic therapy. The use of either of these classes of metal ions is not intended to be limited by this generalization. Preferred metals are generally those having atomic numbers of 21-30 (inclusive), 39, 48, 49, 57-71 (inclusive, lanthanides), and 90-103 (inclusive, actinide), with oxidation states of 2 or 3. Of these, the ones having atomic numbers of 25, 48, 49, 39 or 57-71 (inclusive) are more preferred. Examples of such metals are chromium (III), manganese (II), manganese (III), iron (II), iron (III), cobalt (II), nickel (II), copper (II), indium (III), praseodymium (III), neodymium (III), samarium (III), gadolinium (III), terbium (III), dysprosium (III), holmium (III), europium (II), europium (III), erbium (III), lutetium (III), ytterbium (III), yttrium (III), cerium (III), thulium (III) and lanthanum (III).

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3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6207660 B1	20010327	42	Texaphyrin conjugates and uses thereof	514/185
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6117363 A	20000912		Method for producing light-emitting material	252/301.68
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5886173 A	19990323	13	Metallation of macrocycles with 2,4-dicarbonyl-metal complexes	540/472
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5858676 A	19990112	17	Electrochemiluminescence of rare earth metal chelates	435/6
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5632930 A	19970527	6	Class of stabilizing compounds for phosphor	252/301.36

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Brief Summary Text - BSTX (86):

M is preferably a divalent or a trivalent metal cation. The divalent metal cation may be selected from, but is not limited to, the group consisting of Ca(II), Eu(II), Mn(II), Co(II), Ni(II), Zn(II), Cd(II), Hg(II), Fe(II), Sm(II) and UO.sub.2 (II). The trivalent metal cation may be selected from, but is not limited to, the group consisting of Mn(III), Co(III), Ni(III), Fe(III), Ho(III), Ce(III), Y(III), In(III), Pr(III), Nd(III), Sm(III), Eu(III), Gd(III), Tb(III), Dy(III), Er(III), Tm(III), Yb(III), Lu(III), La(III), and U(III).

Detailed Description Text - DETX (6):

Potassium carbonate (1.382 g, 10 mmol), 2-[2-(2-chloroethoxy)ethoxy]-ethanol

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	U	1	Document ID	Issue Date	Pages	Title	Current O
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6207660 B1	20010327	42	Texaphyrin conjugates and uses thereof	514/185
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6117363 A	20000912		Method for producing light-emitting material	252/301.68
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5886173 A	19990323	13	Metallation of macrocycles with 2,4-dicarbonyl-metal complexes	540/472
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5858676 A	19990112	17	Electrochemiluminescence of rare earth metal chelates	435/6
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5632930 A	19970527	6	Class of stabilizing compounds for phosphor	252/301.36

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TITLE - T1 (1):  
Contrast agent for NMR imaging comprising peptide structures

Brief Summary Text - BSTX (24):  
There may be mentioned more particularly the following ions: Co.sup.2+, Mn.sup.2+, Cu.sup.2+, Cr.sup.3+, Fe.sup.2+, Fe.sup.3+, Eu.sup.2+, Gd.sup.3+, Dy.sup.3+, Ho.sup.3+.

Claims Text - CLTX (7):  
3. A complex according to claim 2, wherein the paramagnetic metal is selected from among Co.sup.2+, Mn.sup.2+, Cu.sup.2+, Cr.sup.3+, Fe.sup.2+, Fe.sup.3+, Eu.sup.2+, Gd.sup.3+, Dy.sup.3+ and Ho.sup.3+.

	U	1	Document ID	Issue Date	Pages	Title	Current O
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5770917 A	19980623		General-purpose discharge lamp and general-purpose lighting apparatus	313/486
3	<input type="checkbox"/>	<input type="checkbox"/>	US 5344639 A	19940906	8	Contrast agent for NMR imaging comprising peptide structures	424/9.34
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5314681 A	19940524		Composition of positive and negative contrast agents for electron spin resonance	424/9.32
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5276695 A	19940104		Multifrequency, rapidly sequenced or simultaneous tunable laser	372/20
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4927768 A	19900522	50	Grown crystalline sensor and method for	436/172

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Abstract Text - ABTX (1):

An NMR contrast agent composition contains a complex of a selected metal ion and a selected ligand. The ion is selected from the group consisting of gadolinium (III), iron (III), manganese (II), manganese (III), chromium (III), copper (II), dysprosium (III), terbium (III), holmium (III), erbium (III), europium (II), and europium (III); and the ligand is a linear two-nitrogen compound having one 2 hydroxy-aryl group at one of the nitrogens; or the ligand is a linear two-nitrogen compound having one or two 2-hydroxy aryl groups at each of the nitrogens; or the ligand is a linear three-, four-, or five nitrogen compound having one or two 2-hydroxy-aryl substituents at each of one

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1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5628982 A	19970513	17	Hydroxy-aryl metal chelates for diagnostic NMR imaging	424/9.363	424/9.361; 436/173	
2	<input type="checkbox"/>	<input type="checkbox"/>	US 5527522 A	19960618	18	Hydroxy-aryl metal chelates for diagnostic NMR imaging	424/9.362	424/9.361; 436/173;	
3	<input type="checkbox"/>	<input type="checkbox"/>	US 5422096 A	19950606	24	Hydroxy-aryl metal chelates for diagnostic NMR imaging	424/9.363	424/9.361	
4	<input type="checkbox"/>	<input type="checkbox"/>	US 5318771 A	19940607	20	Hydroxy-aryl metal chelates for diagnostic NMR imaging	424/9.361	424/9.363; 424/9.364;	
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5250285 A	19931005	19	Hydroxy-aryl metal chelates for diagnostic NMR imaging	424/9.361	424/9.363; 424/9.364;	
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4927768 A	19900522	50	Grown crystalline sensor and method for sensing	436/172	422/58; 422/82.06;	

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Brief Summary Text - BSTX (86):

M is preferably a divalent or a trivalent metal cation. The divalent metal cation may be selected from, but is not limited to, the group consisting of Ca(II), Eu(II), Mn(II), Co(II), Ni(II), Zn(II), Cd(II), Hg(II), Fe(II), Sm(II) and UO.sub.2 (II). The trivalent metal cation may be selected from, but is not limited to, the group consisting of Mn(III), Co(III), Ni(III), Fe(III), Ho(III), Ce(III), Y(III), In(III), Pr(III), Nd(III), Sm(III), Eu(III), Gd(III), Tb(III), Dy(III), Er(III), Tm(III), Yb(III), Lu(III), La(III), and U(III).

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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	R
10	<input type="checkbox"/>	<input type="checkbox"/>	US 6207660 B1	20010327	42	Texaphyrin conjugates and uses thereof	514/185	514/2; 514/410;	
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6051368 A	20000418		Radiation sensitive composition containing a	430/288.1	340/910; 340/911;	
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5882548 A	19990316		Luminescent organic-inorganic	252/301.16	534/15; 564/118	
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5773832 A	19980630		Advanced CCD-based x-ray image sensor system	250/370.09	378/188; 378/98.8	
14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5715292 A	19980203		Digital sensor cassette for mammography	378/98.8	250/368; 250/370.11;	
15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5693948 A	19971202		Advanced CCD-based x-ray image sensor system	250/370.09	378/98.8	

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Detailed Description Text - DETX (214):  
Preferable transition, lanthanide and actinide elements include, for example, Gd(III), Mn(II), Cu(II), Cr(III), Fe(II), Fe(III), Co(II), Er(II), Ni(II), Eu(III) and Dy(III). More preferably, the elements may be Gd(III), Mn(II), Cu(II), Fe(II), Fe(III), Eu(II) and Dy(III), especially Mn(II) and Gd(III).

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3	<input type="checkbox"/>	<input type="checkbox"/>	US 6521211 B1	20030218	96	Methods of imaging and treatment with targeted	424/9.52	424/450; 424/9.5;	
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6495531 B2	20021217		Use of glucosamine and glucosamine derivatives for	514/62		
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6402987 B1	20020611		YMO4:Eu,L phoshpor with improved lumen maintenance	252/301.4R	252/301.4P; 313/485	
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6387569 B1	20020514		Conductive iron-based storage battery	429/221	429/209	
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6379852 B2	20020430		Electrophotographic light-receiving member	430/57.7		

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